# Save Our Water Supply: AVOID RUNOFF

Maintaining a safe, clean water supply is important for everyone's health. From farmers who need clean water to grow food to animals who need safe water to drink and live in, keeping our water unpolluted is vital to the Valley. That's why our storm water runoff needs to stay clean.

#### What is runoff?

When raindrops splash onto the street and flow down the gutter, the water ends up in storm drains. This rainwater picks up contaminants along the way and carries them to ponding basins, canals, creeks or the San Joaquin River. The water can pick up motor oil, bug killers and trash, which end up seeping into our groundwater — and groundwater is our drinking water.

#### Irrigation runoff is wasted water.

When the water from our irrigation systems runs off the soil or gets sprayed onto paved areas, it washes contaminants off plants and paved areas into our storm drains. Contaminants such as fertilizers, insecticides, weed killers, oils and grease can get carried into our storm drain system and may end up in our drinking water. By eliminating irrigation runoff, we reduce the risk of contaminating our water which can lead to costly water supply cleanup.

### WATERING SCHEDULE

SPRING / SUMMER March 2 - November 30

### NO WATERING MONDAYS

Tues / Thurs / Sat Odd Numbered Addresses

(Ending in 1,3,5,7,9)

Wed / Fri / Sun Even Numbered Addresses (Ending in 0,2,4,6,8)

# WINTER December 1 - March 1

Saturday Odd Numbered Addresses (Ending in 1,3,5,7,9)

### Sunday

Even Numbered Addresses (Ending in 0,2,4,6,8)

#### WATERING TIMES

ANYTIME EXCEPT

6 AM TO 8 AM • 11 AM TO 7 PM

ANYTIME ON YOUR WATERING DAY

### **Tips For Avoiding Irrigation Runoff**

Anyone who has ever seen a landscape being watered to the point where the water puddles and either runs down the sidewalk, into the gutter, or on to the street has witnessed "irrigation runoff." Runoff is

caused by sprinklers spraying onto paved areas and/ or by running the irrigation system for to long of a cycle. Monitor the spray pattern of sprinklers and install nozzles that are appropriate for the area. Then determine how long to run your irrigation cycle by doing the following:



Use a watch to determine the length of time it takes to reach the runoff point from your irrigation system. Observe the beginning time on the watch; start your sprinklers and observe the irrigation until you see water accumulating (puddling) and/or running onto the sidewalks or gutters; again observe your watch. The runoff point is the length of time between when you first observed runoff and the beginning time. To prevent runoff do not exceed this short length of time during any one irrigation cycle.

# Step Two: Set your sprinkler controller appropriately

Use the features on your controller to your advantage. For example, if your landscape requires 12 minutes of irrigation and your runoff point is four minutes, then set three start times of four minutes each no more than two hours apart. Using short cycles not only stops runoff but gives a more even distribution of water to the area being irrigated. Monthly adjust your controller to allow for season changes. In the winter months, turn your controller to the "off" position and/or reduce the amount of irrigation. To help with water pressure set your controller start time(s) at odd times, such as 9:37an or 1:42 am, if your controller features allow you to do so.

Runoff in the Fresno-Clovis area drains to ponding basins and replenishes our groundwater, the source of our drinking water. Protect our water by using fewer pesticides and avoiding toxic products.

# Water-Wise GARDENING TIPS

Here are some ways to have a healthy garden while conserving water:

- Choose plants classified by water needs of very low, low and medium.
- Aerate lawns that are on compacted or heavy clay soils to increase water penetration into the soil and to reduce runoff.
- Mulch all flowerbeds with up to 4 inches of organic (bark, wood chips, newspaper, straw) or inorganic (gravel, pavers, plastic, shredded tires) material to reduce evaporation, moderate soil temperature and suppress weeds.
- Plants with similar water needs should be planted together.
- Adjust your irrigation controller to allow for weather conditions, plant needs and soil conditions.
- Consider drip irrigation the most efficient method of irrigation. It's easy to install, whether converting a sprinkler system or starting from scratch.
- Reduce lawn size or eliminate unused lawn areas. Consider replacing them with low water-use ground cover plants or decorative mulch.
- Mow lawn higher during summer months to reduce plant water needs, reduce water evaporation from the soil surface, and suppress weeds.
- Apply only slow-release fertilizers that stay available to the plant for longer periods of time and do not encourage succulent, water-hungry growth.
- Periodically manually turn on your irrigation system to check for leaks and broken equipment, then make repairs.
- When checking the system, monitor the spray pattern of sprinklers and install nozzles that are appropriate for irrigated areas to avoid spraying water on paved surfaces.
- Sweep sidewalks and patios instead of hosing them off.



For more information contact:

uc Cooperative Extension Master Gardeners at (559) 456-7564 or http://mgfresno@ucdavis.edu, or the City of Fresno Water Conservation Program at (559) 621-5480 or www.fresnowater.org.

To dispose of unused pesticides and other household hazardous waste, call the County of Fresno at (559) 262-4259 for a drop-off site near you.



PLANT CHOICES
& WATER
CONSERVATION
TIPS
for our climate







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# PLANT GUIDE For Low Water-Use Species

The plants listed in this brochure are water-wise, which means they require a minimal amount of water to thrive in the Central Valley as classified by Sunset's Garden Climate Zone 8 or 9. Because plants have many common names, the botanical names are also listed. For more information on each plant, you may consult the Sunset Western Garden Book or other reliable sources.

### ZONE 8

### Cold-air Basins of California's Central Valley

Growing Season: Mid-February through November. This is a valley floor with no maritime influence. Summers are hot; winter lows range from 29° to 13° F/-2° to -11° C. Rain comes in the cooler months.

### ZONE 9

### Thermal Belts of California's Central Valley

Growing Season: Late February through December. Zone 9 is located in the higher elevations around Zone 8, but its summers are just as hot; its winter lows are slightly higher (temperatures range from 28° to 18° F/-2° to -8° C.) Rainfall pattern is the same as in Zone 8.



#### TREES **COMMON NAME Botanical Name** Acacia Acacia spp. African Sumac Rhus lancea Arizona Cypress Cupressus arizonica Australian Willow Geijera parviflora Beefwood Casuarina spp. Blue Atlas Cedar Cedrus atlantica California Buckeye Aesculus californica Carob Ceratonia siliqua Chaste Tree Vitex agnus-castus Chinese Pistache Pistacia chinensis Chitalpa Chitalpa tashkentensis Crape Myrtle Lagerstroemia indica Deodar Cedar Cedrus deodara **Desert Willow** Chilopsis linearis 'Timeless Beauty' (seedless) **Eucalyptus** Eucalyptus spp. Fruitless Olive Olea europaea spp. (non fruiting varieties available) Goldenrain Tree Koelreuteria paniculata Hackberry Celtis sinensis Incense Cedar Calocedrus decurrens Italian Cypress Cupressus sempervirens Japanese Pagoda Tree Sophora japonica Maidenhair Tree Ginkgo biloba Melaleucca Melaleucca spp. Oak Quercus (most species) Pomegranate Punica granatum Smoke Tree Cotinus coggygria Arbutus 'Marina' Strawberry Tree ☐ Sweet Bay Laurus nobilis Sweet Gum (seedless) Liquidambar styraciflua 'Rotundiloba' Western Redbud Cercis occidentalis

### SHRUBS

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COMMON NAME	Botanical Name
☐ Barberry	Berberis spp.
Bottlebrush	Callistemon spp.
Bush Anemone	Carpenteria californica
Bush Morning Glory	Convolvulus cneorum
■ Butterfly Bush	Buddleja davidii
California Fuchsia	Zauschneria californica
California Holly Grape	Mahonia pinnata
California Lilac	Ceanothus spp.
Cape Plumbago	Plumbago auriculata
Coffeeberry	Rhamnus californica
Cotoneaster	Cotoneaster spp.
Coyote Bush	Baccharis pilularis
Dwarf Olive	Olea europaea
☐ Emu Bush	Eremophila spp.
☐ Flannel Bush	Femontodendron californicu
☐ Flowering Quince	Chaenomeles
☐ Forsythia	Forsythia x intermedia
☐ Grevillea	Grevillea spp.
Heavenly Bamboo	Nandina domestica
☐ Indian Hawthorne	Rhaphiolepis spp.
Jerusalem Sage	Phlomis spp.
☐ Juniper	Juniperus spp.
Kangaroo Paw	Anigozanthos spp.
	Kerria japonica
Mugho Pine	Pinus mugo
Myrtle	Myrtus communis
□ Oleander	Nerium oleander
Photinia	Photinia spp.
Pineapple Guava	Feijoa sellowiana
Rockrose	Cistus (all species)
Rosemary	Rosmarinus officinalis
Russian Olive	Elaeagnus angustifolia
Snowberry	Symphoricarpos spp.
Sweet Box	Sarcococca ruscifolia
Sweet Olive	Osmanthus spp.
Texas Ranger	Leucophyllum spp.
Toyon	Heteromeles arbutifolia
Xylosma	Xylosma congestum
Yew Pine	Podocarpus spp.

## PERENNIALS & BULBS

COMMON NAME	DULANICAI NAME
African Daisy	Osteospermum fruticosum
Aloe	Aloe spp.
Artemisia	Artemisia spp.
Bearded Iris	Iris hyb.
Blanket Flower	Gaillardia spp.
Cast Iron Plant	Aspidistra elatior
Coneflower	Echinacea spp.
Coreopsis	Coreopsis spp.
Daylily	Hemerocallis hyb.
Deer Grass	Muhlenbergia rigens
Dusty Miller	Senecio cineraria
Flax Lily	Dianella tasmanica
Fortnight Lily	Dietes spp.
Gaura	Gaura lindheimeri
Geranium	Pelargonium spp.
Germander	Teucrium spp.
Hen and Chicks	Echeveria spp.
Jupiter's Beard	Centranthus ruber
Lamb's Ears	Stachys byzantina
Lavender	Lavandula spp.
Lily of the Nile	Agapanthus spp.
Liriope	Liriope spp.
Maiden Grass	Miscanthus sinensis
Matilija Poppy	Romneya coulteri
Naked Lady	Amaryllis belladonna
New Zealand Flax	Phormium tenax
Oregano	Origanum spp.
Pink Muhly Grass	Muhlenbergia capillaris
Red Yucca	Hesperaloe parviflora
Russian Sage	Perovskia atriplicifolia
Sage	Salvia spp.
Sagebrush	Artemisia spp.
Santa Barbara Daisy	Erigeron karvinskianus
Society Garlic	Tulbaghia voilacea
Sundrops	Calylophus spp.
Verbena	Verbena spp.
Wood Fern	Dryopteris spp.
Yarrow	Achillea spp.

## GROUNDCOVERS

	Dotamour Manie
☐ Bearberry Cotoneaster	Cotoneaster dammeri
Blue Fescue	Festuca glauca
Buffalo Grass	Buchloe dactyloides
Cape Weed	Arctotheca calendula
Dwarf Plumbago	Ceratostigma
	plumbaginoides
Evergreen Candytuft	Iberis sempervirens
Gazania	Gazania hyb.
Ground Morning Glory	Convolvulus sabatius
dround morning drory	(C. mauritanicus)
☐ Ice Plant	Delosperma spp.
☐ Knotweed	
Kilotweeu	Persicaria capitata
	(Polygonum
	capitatum)
Myoporum Myoporum	Myoporum parvifolium
Serbian Bellflower	Campanula 🧪 🤏
	poscharskyana
Snow in Summer	Cerastium tomentosum
Stonecrop	Sedum spp.
☐ Thyme	Thymus spp.
Trailing Lantana	Lantana montevidensis
Woolly Yarrow	Achillea tomentosa
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### **VINES**

☐ Star Jasmine

**COMMON NAME Botanical Name** ☐ Boston Ivy Parthenocissus tricuspidata ☐ Carolina Jessamine Gelsemium sempervirens ☐ Cat's Claw Macfadyena unguis-cati ☐ Honeysuckle Lonicera spp. □ Potato Vine

Solanum laxum (S. jasminoides) Trachelospermum jasminoides